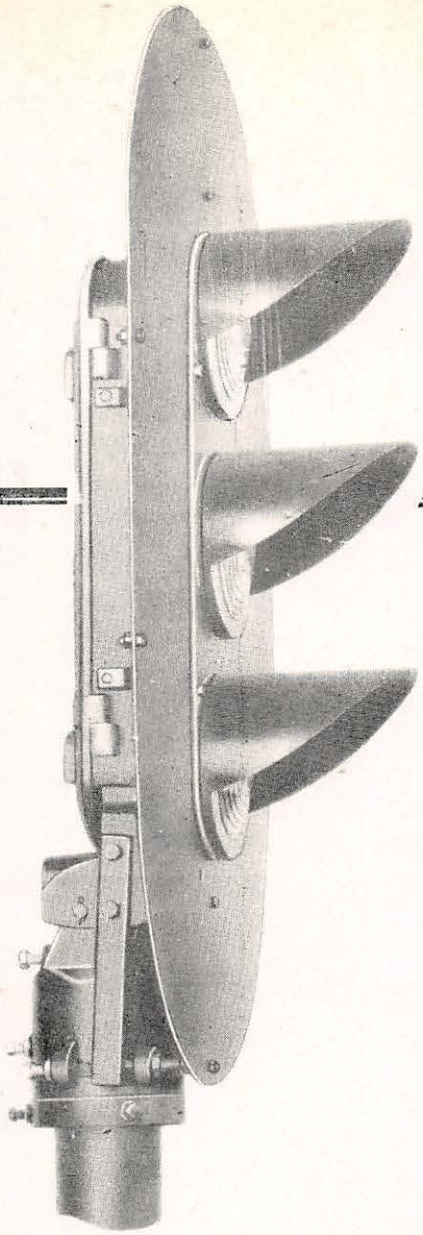


Style "P-5" Color Light Signal

S.I.S.
No. 157

Union Switch & Signal Co.
Swissvale, Pa.
Photoprinted IN U.S.A.

Union Switch & Signal Co.

SWISSVALE, PA.

Subject: Style "P-5" and Style "TP-5" Color Light Signals for top of mast or pipe bracket mounting.	Sales Information Sheet
	Number: 157
	Date: June 12, 1930
	4 Sheets

Style "P-5" and Style "TP-5" Signals have the same general characteristics except that in the former the lamp units are mounted vertically while in the latter they are arranged triangularly. In this description the name Style "P-5" will broadly cover both types and comparison will be made with an earlier design, the Style "P-2" Signal, described on pages 3, 4 and 5 prefacing catalog Plates B-2700 to B-2799.

Improved facilities have been provided in the Style "P-5" Color Light Signal to secure more accuracy in alignment with greater ease than were available in the Style "P-2" Signal.

The "P-5" Signals were designed to meet the requirement of a better horizontal adjustment, also to meet the requirement of some railroads that the signal have a built-in sight, making a separate sighting telescope, such as that shown on Plate B-2600 Fig. A, unnecessary.

The lens units in the "P-5" Signal are exactly the same as used in the "P-2" signal and the signal cases are similar to the "P-2" cases, the only difference being in the bottom of the case where it fits on to the supporting socket.

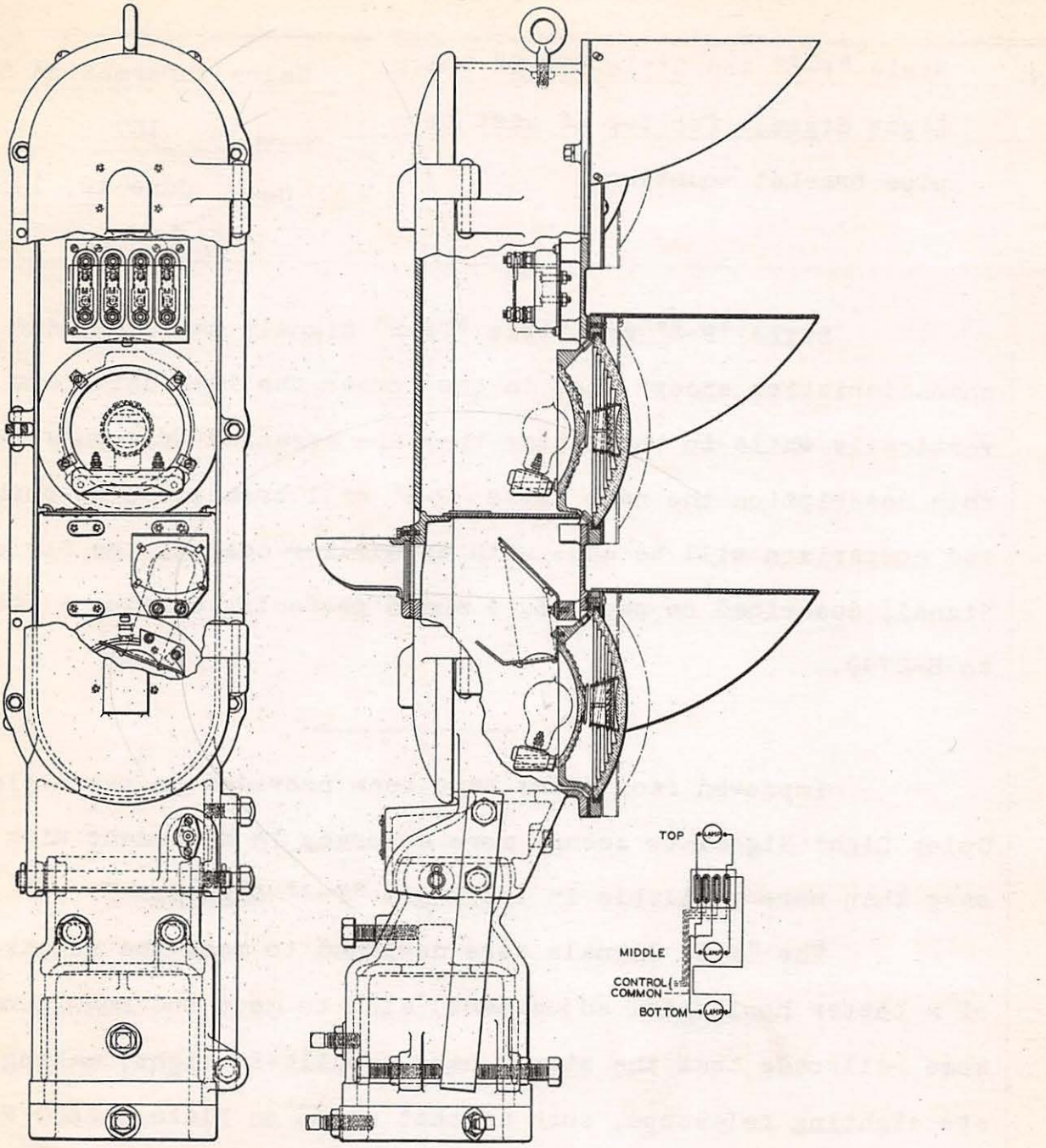


Fig. 1. Union Style "P-5" Color Light Signal

The adjustable supporting socket for the "P-5" Signal, illustrated in Figs. 1 and 2 is made up of two cast iron sleeves, one fitting over the other and so designed that the outer sleeve will rotate on the inner one, all points of contact between the two being machined and thus providing smooth and easy rotation. The

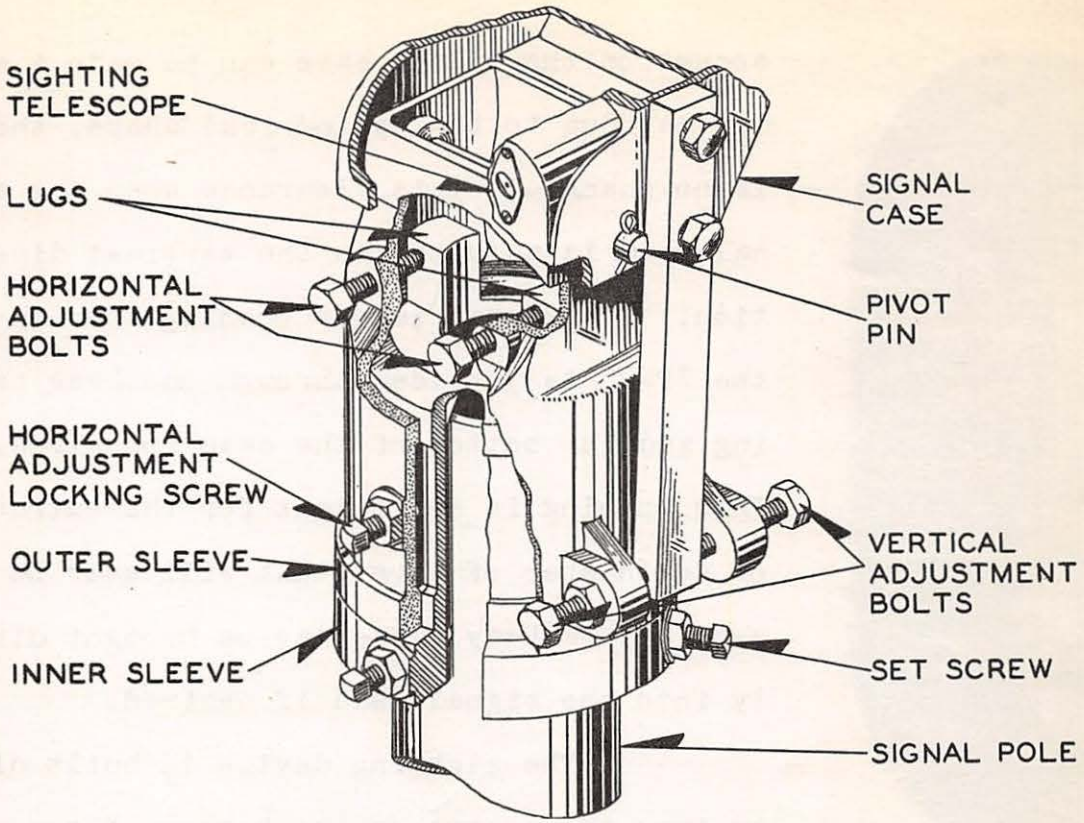
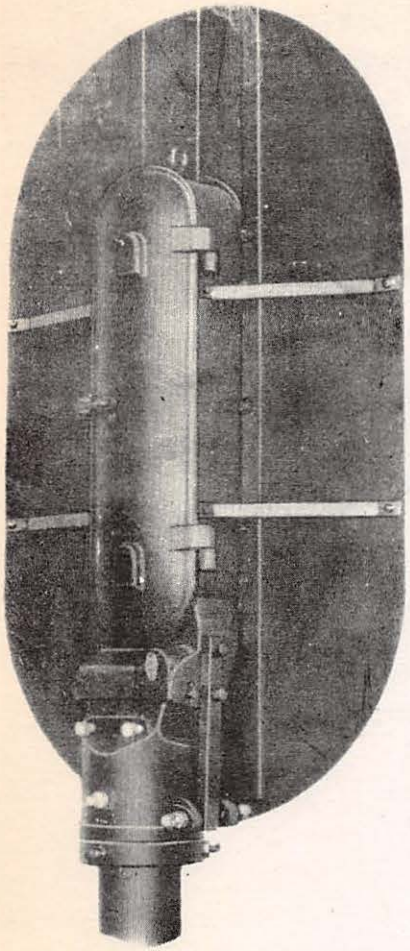


Fig. 2...Adjustable Supporting Socket for the Union Style "P-5" Color Light Signal.

inner sleeve shown in Fig. 2 is clamped directly to the supporting pipe by means of three set screws, and has two lugs, against which the two horizontal adjustment bolts bear. By turning out one of the bolts and turning in the other, the signal head is rotated about the inner sleeve, thus providing a micrometer adjustment in the horizontal plane. The vertical adjustment is exactly the same as used in the "P-2" Signal.

The socket on the bottom of the signal case, as well as the top of the outer sleeve or supporting casting are made cylindrical in shape, the centers of the cylindrical surfaces coinciding with the center of the pin upon which the signal head is pivoted. With this arrangement the clearance between the supporting casting and the



Rear View of Style "P-5" Color Light Signal showing Telescope and Adjustable Mounting Support.

socket on the signal case can be made a minimum as, due to the cylindrical shape, there is no change in this clearance when the signal head is adjusted in the vertical direction. A somewhat larger opening than in the "P-2" is provided through the base casting and the bottom of the case for wires. This opening is sufficient for the entrance of any number of wires that will ever be used and Parkway cable may be brought directly into the signal head if desired.

The sighting device is built directly into the socket on the bottom of the signal case. This sighting device is accurately aligned parallel to the light beam at the factory.

The procedure to be followed in aligning the signal is clearly outlined in the first paragraph of Instruction Pamphlet U-5032.

The lens units being the same as those used in "P-2" Signals, all lamps, lenses and deflecting prisms that were used in the "P-2" Signal can be used in the "P-5".

Backlights and individual transformers can be furnished with the "P-5" the same as were originally furnished with the "P-2" signal.

H. V. Comerford
7/19/30